

Twenty First Meeting of the Africa-Indian Ocean Planning and Implementation Regional Group (APIRG/21) (Nairobi, Kenya, 9 – 11 October 2017)

Agenda Item 3: Performance Framework for Regional Air Navigation Planning and Implementation

STATUS OF IMPLEMENTATION OF PBN PROCEDURES

[Presented by the Agency for the Safety of Air Navigation in Africa and Madagascar]

Executive Summary This working paper aims at presenting the status of the implementation of the PBN procedures in ASECNA member states.						
 a) Take note progress realized by the ASECNA in the elaboration and the implementation of the flight procedures design; b) Urge States of the AFI region to develop the regulatory framework for the approval of the flight procedures design; c) Encourage users that have the ability to effectively fly these published procedures and provide feedback to designers 						
Specific Objectives:	This briefing note relates to the strategic objectives: A, B, C and E. Safety, Air Navigation Capacity and Efficiency, and Environmental Protection.					
Financial Incidences	Groundless					
References:	 DOC 9750: Global Air Navigation Plan; Resolution A-38, relating to ASBU; A37-11 Resolution; AFI Road map for the PBN; Doc 9613- Manuel PBN. 					

1. INTRODUCTION

1.1 With the aim of stopping the proliferation of the regional RNAV and RNP standards, the ICAO created in 2007 the PBN concept which clearly redefines the RNAV and RNP per operations zones.

1.2 The Resolution A36-23, and A37-11 of the ICAO Assembly, call on contracting states, to implement ATS routes ATS and procedures of departures, arrivals and approaches, in line with the PBN concept and demand for these States and planning and implementation regional groups (PIRG) to develop each, plans of implementation of the PBN.

1.3 To follow up the ICAO resolutions, APIRG adopted, in December, 2008, the "Road map for the implementation of the Navigation based on the Performances (PBN) in the Africa - Indian Ocean Region (AFI)".

1.4 The AFI road map for the PBN plans the implementation of the PBN in 3 stages, the short term, the middle term, and the long term. About the flights procedures of design, the objectives of realization were fixed about:

- a) Implementation of the SIDs and the STARS PBN on the international airports.
- b) Implementation of the RNP APCH (with Baro-VNAV) for instruments runways.
- c) Implementation of the continuous descent operations (CDO) and continuous climb operations(CCO).

2. Status of PBN flight procedures implementation

2.1 Within the framework of the AFI road map for the PBN implementation, the ASECNA develops and implements the approaches procedures with guide vertical line (APV / BaroVNAV), the STARS and the SIDs based on the PBN criteria in all the international airports of 17 member states.

2.2 The two appendices below gives the global state of the elaboration and the implementation of the flights procedures design in the international airports of 17 member states of the ASECNA.

3. Actions by the meeting

The meeting is invited to:

- a) Take note progress realized by the ASECNA in the elaboration and the implementation of the flight procedures design;
- b) Urge States of the AFI region to develop the regulatory framework for the approval of the flight procedures design;
- c) Encourage users that have the ability to effectively fly these published procedures and provide feedback to designers

RNP APCH RNP APCH AIRPORTS REMARKS (LNAV) (LNAV/VNAV) 1 Antananarivo Implemented Implemented 2 Mahajanga 3 Implemented Niamey Implemented 4 Dakar 5 Implemented Libreville Implemented 6 Abidjan 7 Studies ended - awaiting the flight test for Lomé implementation in 2017 Studies ended - awaiting the flight test for 8 Bamako implementation in 2017 Studies ended - awaiting the flight test for 9 Cotonou implementation in 2017 Studies ended - awaiting the CAA approval 10 N'Djamena for implementation in 2017 11 Implemented Ouagadougou Implemented 12 Yaoundé 13 Douala In progress for implementation in 2017 Implemented 14 Moroni Implemented 15 Port – Gentil 16 Implemented Malabo 17 Nouakchott Planned for 2018 18 Implemented Brazzaville 19 Implemented **Point Noire** 20 Implemented Bissau 21 Bangui In progress for implementation in 2017 22 Nouadhibou Planned for 2018 23 Bobo-Implemented Dioulasso 24 Implemented Garoua 25 Implemented Franceville Implemented 26 Sarh 27 Implemented Toamasina 28 Implemented Ollombo 29 Implemented Bata Implemented 30 Gao Implemented 31 Niamtougou 32 Studies ended - awaiting the flight test for Mopti implementation in 2017

Appendices 1: RNP APCH (LNAV et LNAV/VNA) approach Procedures

	AIRPORTS	CDO Procedures	CCO Procedures	REMARKS
1	Antananarivo			In progress for implementation in 2018
2	Niamey			Planned for 2019
3	Dakar			Awaiting the CAA approval for implementation in 2018
4	Libreville			in progress for implementation in 2018
5	Abidjan			Awaiting the CAA approval for implementation in 2018
6	Lomé			Planned for 2020
7	Bamako			Planned for 2019
8	Cotonou			Planned for 2020
9	N'Djamena			In progress for implementation in 2018
10	Ouagadougou			In progress for implementation in 2018
11	Douala			Planned for 2019
12	Moroni			Planned for 2021
13	Malabo			Planned for r 2020
14	Nouakchott			Planned for 2019
15	Brazzaville			In progress for implementation in 2018
16	Bissau			Planned for 2021
17	Bangui			Planned for 2021

Appendices 2 : CDO/CCO Procedures

END.